

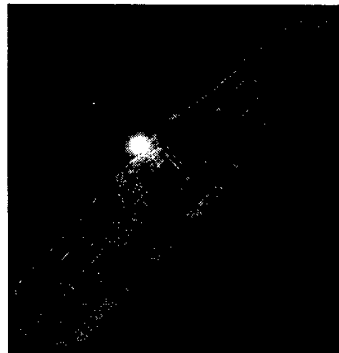
PM SADARM Programs

June 23 1998

Presented By:

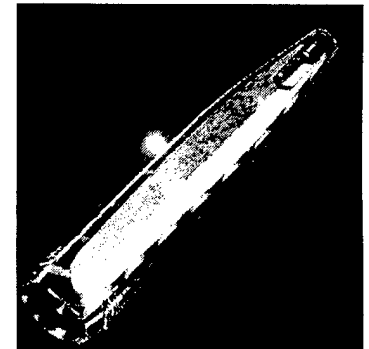
**COL BERNARD ELLIS
PROJECT MANAGER
for SADARM
(973) 724-2003**

PM SADM VISION



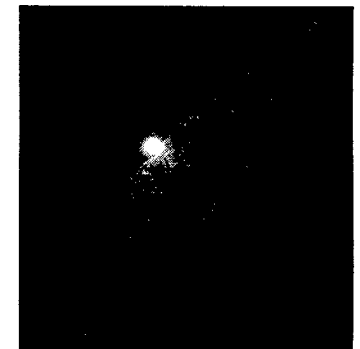
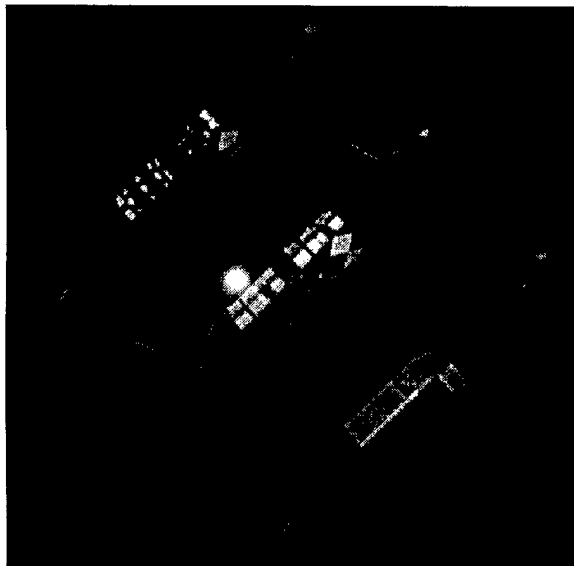
5MM
RM

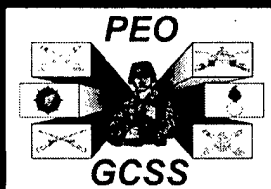
***Deliver
Leap - Ahead***



HE

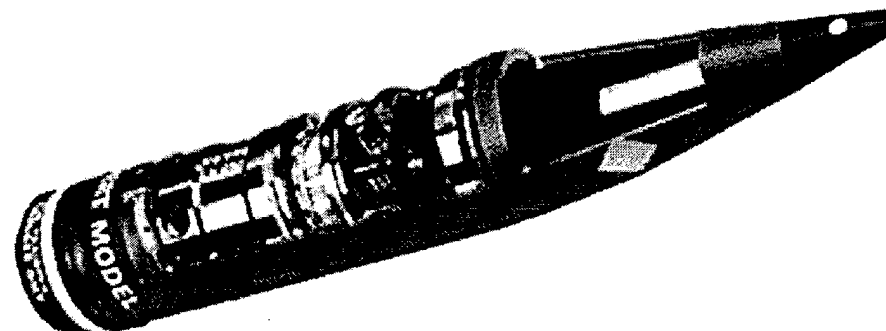
***Munitions Combat Power
to War Fighters***





Mission

- Provides enhanced fire/counterfire support against stationary, armored vehicles well beyond the forward line of troops. SADARM enables rapid engagement under inclement weather, and degraded battlefield conditions.



Performance

	<u>155mm</u>
• Submunition weight (lbs)	25.8
• Range (KM) (Paladin)	22.5
• Range (KM) (Crusader)	27.0

Special Features

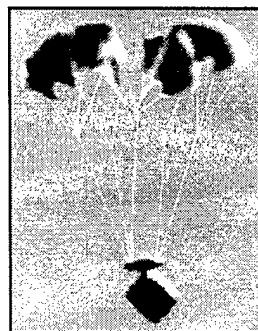
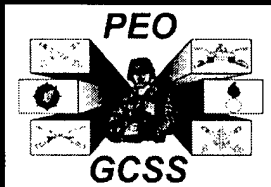
	<u>155mm</u>
• Submunition Diameter (in)	5.8
• Number of Submunitions	2/rd
• Sensors	
♦ Active and Passive Millimeter Wave	
♦ 1 Color Infrared	
♦ Magnetometer as the "fourth" sensor	

Key Contractors

- Prime Contractor
 - ♦ Aerojet Electronic Systems, Azusa, CA (CPIF)
- Prime Subcontractor
 - ♦ Alliant Techsystems, Inc., Minnetonka, MN

Fielding Data

- FUE 155mm: Jul 99



Near Term:

IOTE Jul/Aug 98

ASARC Dec 98

FUE Jul 99

Far Term:

PI SADARM FY01

XM982 FY02

Block II SADARM Army XXI

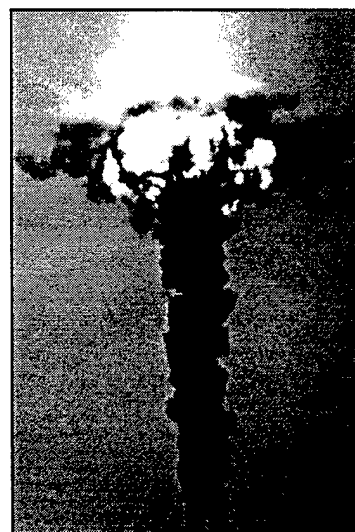
International:

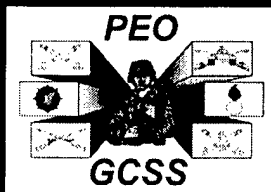
Swiss France

UK Norway

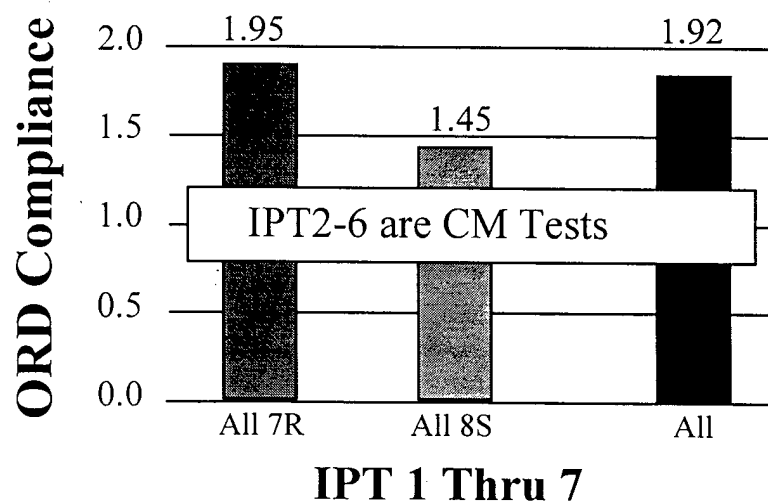
Israel Greece

Netherlands Korea



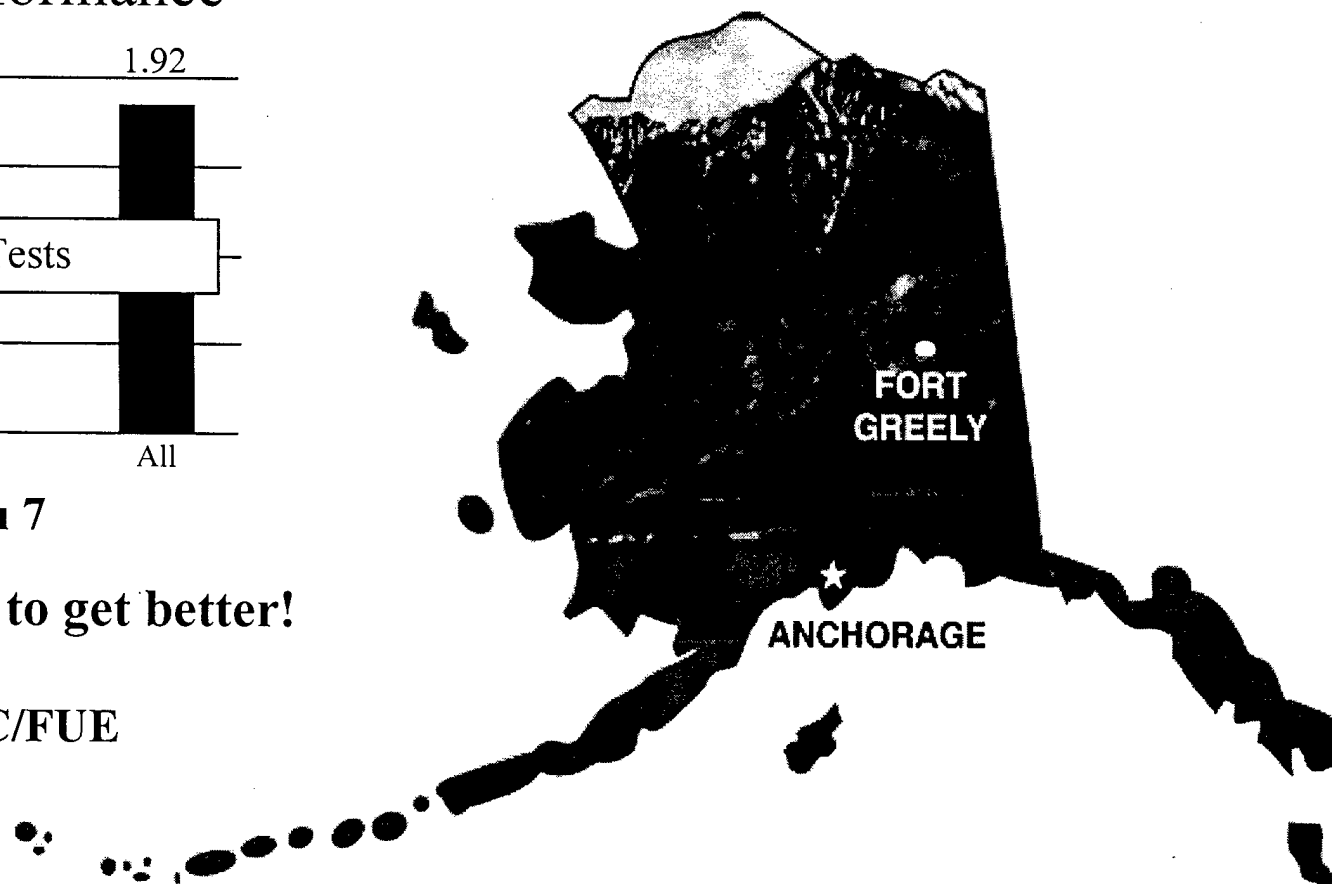


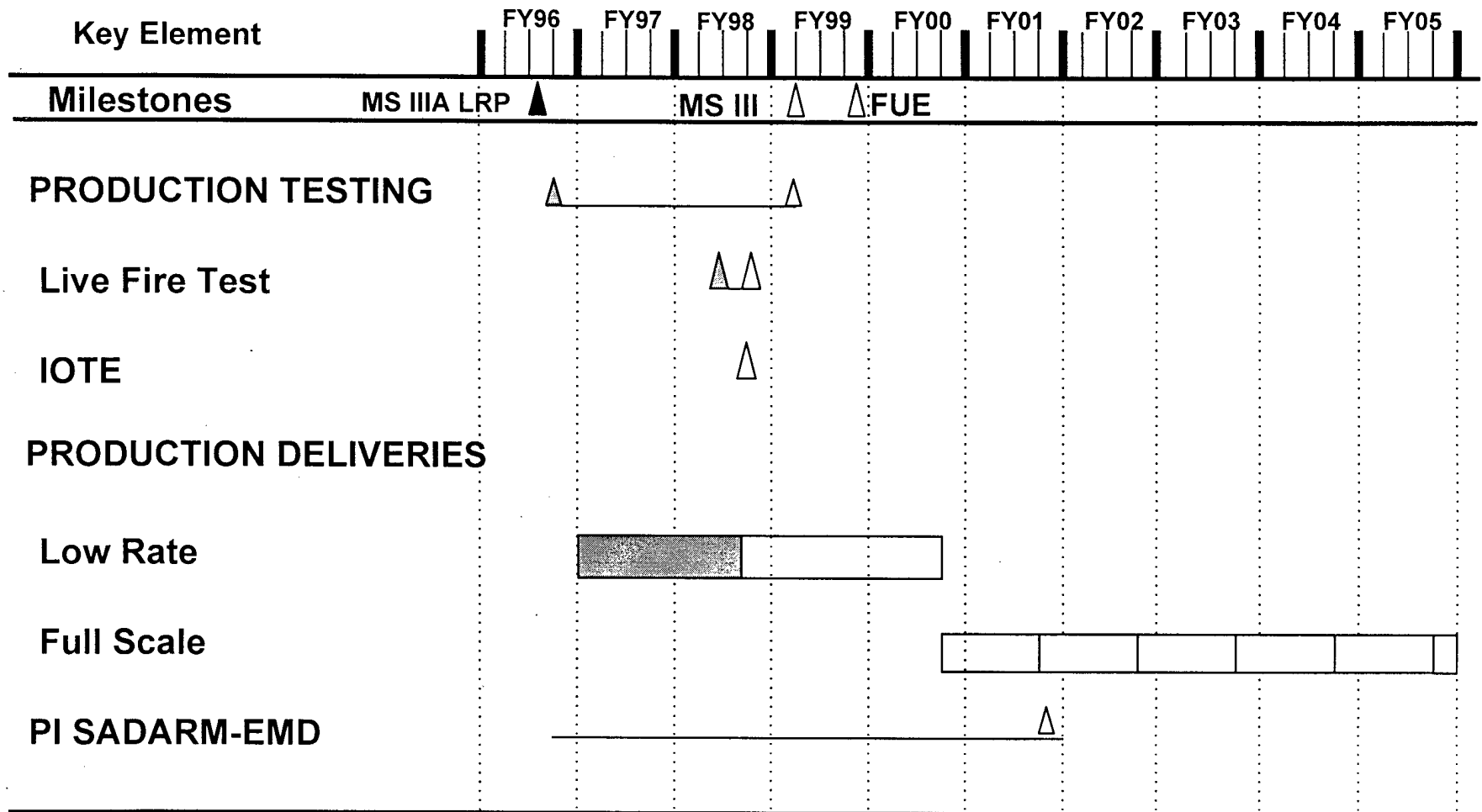
Submunition Performance

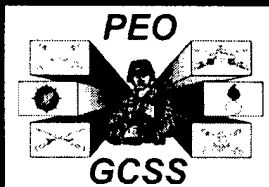


SADARM is only going to get better!

- Improving Reliability
- On Track for OT/ASARC/FUE
- Poised for PI Cut-In







Mission

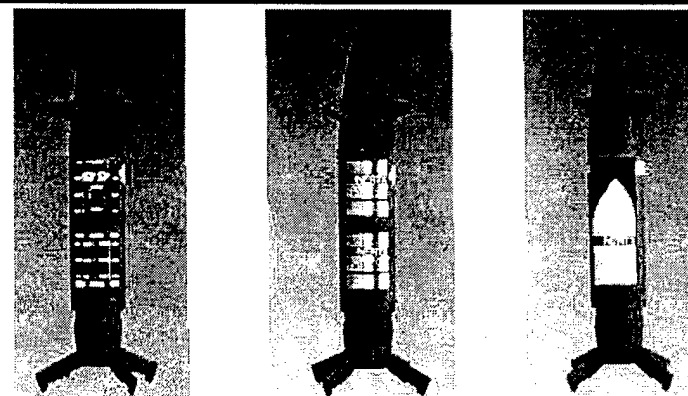
- Provides the maneuver force with improved fire support through an Extended Range, fratricide reducing, accuracy enhancing, more lethal family of 155mm projectiles in support of Force XXI operations.
- ⇒ DPICM with 64 Submunitions
- ⇒ SADARM with 2 PI-SADARM Submunitions
- ⇒ Unitary with Bunker Penetrating HE Warhead

Capability/Improvements

- Increased Range:
 - + Paladin / M198 / JLW155: 28 to 37 Km
 - + Crusader: 40 to 47 Km
- Increases Survivability Through Greater Stand-off Ranges

Key Contractors

- Raytheon TI Systems
 - + Primex - Submunitions
 - + KDI - FS&A
 - + Rockwell Collins - GPS
 - + Allied Signal - IMU

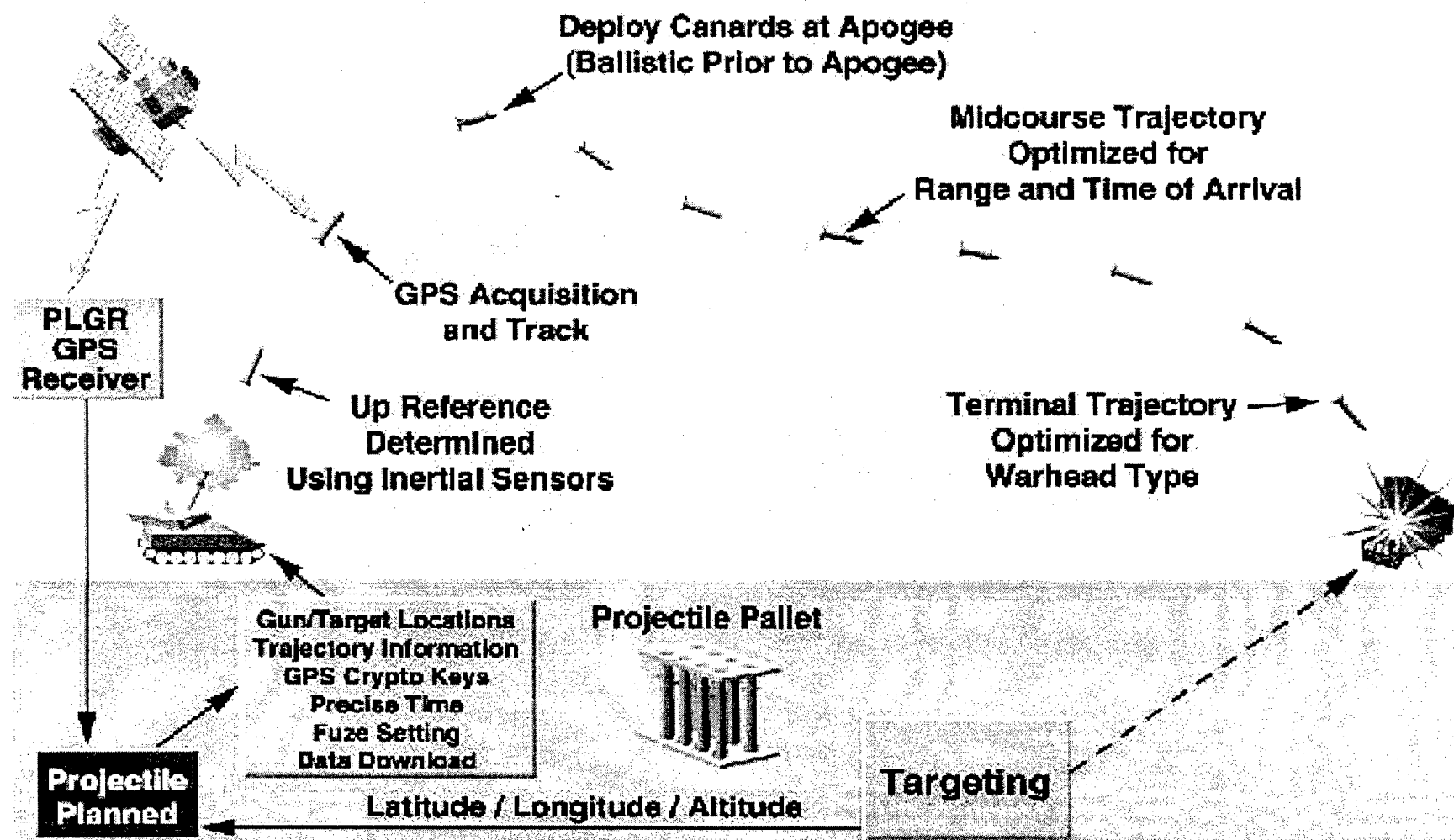


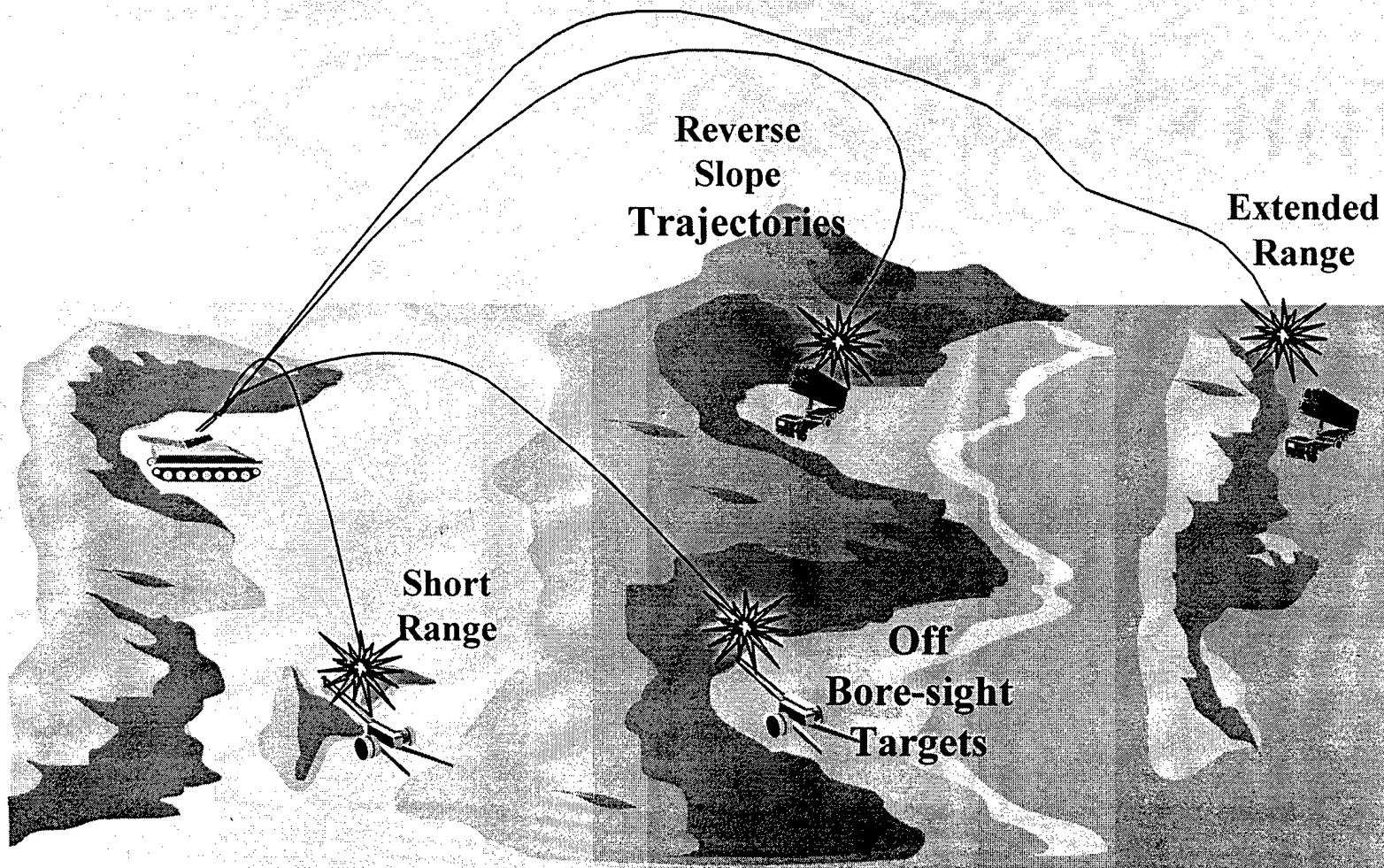
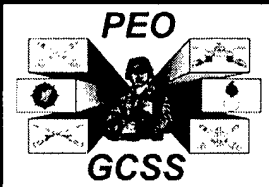
Characteristics/Special Features

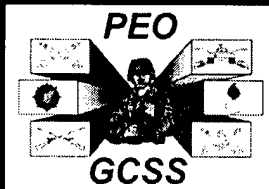
- One Meter Length / 106 lb
- DPICM Submunitions with Self-Destruct Feature
- On-Board Self Locating System (SLS)
 - GPS / INS Guidance
- Inductive Set Integral Fuze - PIAFS
- Fin Stabilized Glide Air Frame
- Anti-Jam Features
- Modular Projectile Configuration

Initial Operational Capabilities

- | | |
|-----------|---------|
| • DPICM | 1Q FY04 |
| • SADARM | 1Q FY07 |
| • Unitary | 1Q FY08 |







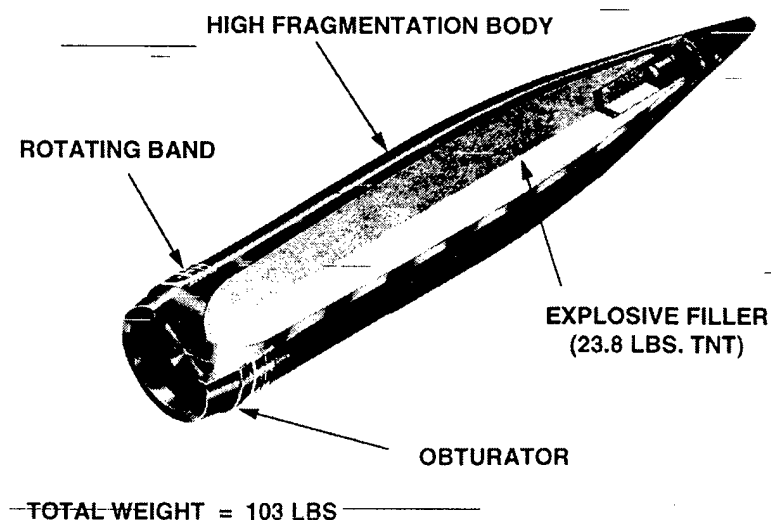
Mission

- Provides Fire Support for Harassment and Interdiction (H&I), Fragmentation, Mining, and Blasting Effects.

<u>Performance</u>	<u>M107</u>	<u>M795</u>	<u>% Inc</u>
Weight (Lbs)	95	103	8%
Payload (Lbs)	15.0	23.8	59%
Range (Km) (Paladin)	17.5	22.5	28%
Range (Km) (Crusader)	18.5	31.0	68%

Special Features

- Ballistic Similitude with M483A1 DPICM
- Precision (Avg Range Probable Error) 0.2-0.3 %
- Effectiveness:
 - Soft Material (Trucks): 1.2-1.8 Times Stnd M107
 - Hard Material & Psnl: 1.5-2.0 Times Stnd M107
- Compatible with the 39 Caliber and Crusader Gun Tubes



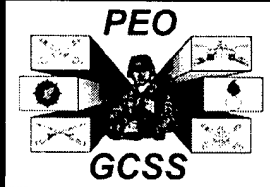
Acquisition Strategy / Key Contractors

•Metal Parts:

- FY 95-96 Chamberlain Mfg following Restricted Competition between SCAAP/LAAAP
- FY 97-98 Restricted Competition U.S. & Canada

•Metal Parts:

- FY 95-96 Sole Source to Iowa AAP
- FY 97-98 Restricted Competition U.S. & Canada



■ PMO SADARM charged with Life Cycle Management for the Artillery Family of Munitions - All Calibers - All Components

● PMO SADARM

- ▲ Drafted Life Cycle Strategy for Artillery Munitions
- ▲ Life Cycle Data Base in Development

● Army is Trying to Figure out Munitions Life Cycle Management

■ What's Next?

- Get Activity Based Cost Management System in Place to Identify Cost Drivers by Munition Family

